

ABSTRACT

INDUCTIVE MAGNETIC HEAD WITH NON-MAGNETIC SEED LAYER GAP STRUCTURE AND METHOD FOR THE FABRICATION THEREOF

A magnetic head including first and a second magnetic poles with a write gap
5 layer disposed therebetween. In a first embodiment the write gap layer includes a non-
magnetic, non-conductive first sublayer which is preferably comprised of Ta or Ti which
is deposited upon the first magnetic pole to act as an adhesion layer. The write gap layer
then includes a second sublayer which is formed of a non-magnetic, electrically
conductive material which is preferably comprised of Rh or Ru. A P2 pole tip is
10 electroplated upon the second sublayer, where the electrically conductive second sublayer
is utilized to conduct electroplating current. In an alternative embodiment the write gap
layer includes a third sublayer that is etchable in a reactive ion etch (RIE) process, and
formed between the first and second sublayers. The third sublayer is preferably
comprised of Ta or Ti.